

04C0

03/13/01

#2

OIPE

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/780,669

DATE: 03/12/2001

TIME: 12:09:33

Input Set : A:\427c24.app.txt

Output Set: N:\CRF3\03122001\I780669.raw

3 <110> APPLICANT: Xu, Jiangchun  
4 Dillon, Davin C.  
5 Mitcham, Jennifer L.  
6 Harlocker, Susan L.  
7 Jiang, Yuqui  
8 Henderson, Robert A.  
9 Kalos, Michael D.  
10 Fanger, Gary R.  
11 Retter, Marc W.  
12 Stolk, John A.  
13 Day, Craig H.  
14 Vedvick, Thomas S.  
15 Carter, Darrick  
16 Li, Samuel  
17 Wang, Aijun  
18 Skeiky, Yasir A.W.  
19 Hepler, William  
20 Hural, John  
21 McNeill, Patricia D.  
22 Houghton, Raymond L.  
26 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
27 DIAGNOSIS OF PROSTATE CANCER  
29 <130> FILE REFERENCE: 210121.427C24  
C--> 31 <140> CURRENT APPLICATION NUMBER: US/09/780,669  
32 <141> CURRENT FILING DATE: 2001-02-09  
34 <160> NUMBER OF SEQ ID NOS: 943  
36 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
38 <210> SEQ ID NO: 1  
39 <211> LENGTH: 814  
40 <212> TYPE: DNA  
41 <213> ORGANISM: Homo sapien  
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44 <221> NAME/KEY: misc\_feature  
45 <222> LOCATION: (1)...(814)  
46 <223> OTHER INFORMATION: n = A,T,C or G  
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50 atcaaatctg aggggtgtct ggaggacttc aatacacctc ccccatagat gaatcagctt 120  
51 ccaggggggtc cagtccctct ccttacttca tccccatccc atgccaaaagg aagaccctcc 180  
52 ctcccttggtc cacagccttc tctaggcttc ccagtgcttc caggacagag tgggttatgt 240  
53 tttcagctcc atccttgctg tgagtgtctg gtgcgttggt cctccagctt ctgctcagtg 300  
54 ctcatggagc agtgccagc acatgtcaet ctccactctc tcagtgtgga tccactagtt 360  
55 ctagagcggc cgccaccgag gtggagctcc agcttttggt cccttttagtg aggggttaatt 420  
56 gcgcgcttgg cgtaaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca 480  
57 attccacaca acatacagag cggaagcata aagtgtaaaag cctgggggtgc ctaatgagtg 540  
W--> 58 anctaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg 600  
W--> 59 tgccagctgc attaatgaat cggccaacgc nccgggaaaa gcggtttgag ttttgggggc 660

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/780,669

DATE: 03/12/2001  
 TIME: 12:09:33

Input Set : A:\427c24.app.txt  
 Output Set: N:\CRF3\03122001\I780669.raw

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W--> 60 tcttccgctt ctcgctcact nantcctgcg ctcggtcntt cggetgcggg gaacggtatc 720
W--> 61 actcctcaaa gngggtatta cgttatccn naaatcnggg gatacccnng aaaaaanttt 780
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65 <211> LENGTH: 816
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapien
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (1)...(816)
72 <223> OTHER INFORMATION: n = A,T,C or G
74 <400> SEQUENCE: 2
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76 ttcatggctg ttggagcaat agaaccgccag ttctacgagc tgctgatcaa aggacttgga 120
77 ctaaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag 180
78 aagttttcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
79 acagatgcct gtgtgactcc ggttctgact ttgaggagg ttgttcatca tgatcacaac 300
80 aaggaacggg gctcgtttat caccagttag gagcaggacg tgagcccccg cctgcacct 360
81 ctgctgttaa acacccacgc catcccttct ttcaaaaggg atccactagt tctagaagcg 420
82 gccgccaccg cgggtggagct ccagcttttg ttccctttag tgagggttaa ttgcgcgctt 480
83 ggcgtaatca tggatcatag tgtttcctgt gtgaaattgt tatccgctca caattccccc 540
W--> 84 aacatacgag ccggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn 600
W--> 85 cattaattgc gttgcgctca ctgcccgctt tcagtcggg aaaactgtcg tgccactgcn 660
W--> 86 ttantgaatc ngcacccccc cgggaaaagg cgtttgcntt ttgggcctct tccgctttcc 720
W--> 87 tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcaact cctcaaaggg 780
W--> 88 ggtntnccgg ttatcccaaa acnggggata cccnga 816
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 773
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapien
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <222> LOCATION: (1)...(773)
98 <223> OTHER INFORMATION: n = A,T,C or G
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102 tectgtctct cactggtgat aaacgagccc cgttcttgt tgtgatcatg atgaacaacc 120
103 tectcaaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaaagt ttgacaccac 180
104 tetgccttcg tcttctttgc aaatacatct gcaaaactct tcttcatttc tggccaatca 240
W--> 105 tccatgtcca tctgattggg aagtccatca gacttttagc canntccttt gatcagcagc 300
106 tcgtagaact ggggttctat tgcctcaaca gccatgaatt ccccatctgc tgtcctgtaa 360
107 gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgaggggg ggcgcggtac 420
W--> 108 ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgctggt ttacaacgtc 480
109 gtgactggga aaacctggg cgttaccac ttaatcgct tgcagcacat ccccttttcg 540
W--> 110 ccagctgggc gtaatanaga aaaggcccg accgatcgcc ctccaacag ttgcgcacct 600
W--> 111 gaatgggnaa atgggacccc cctgttacg cgcattnaac ccccgcnngg tttngttgtt 660
W--> 112 acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttcnccttt 720
W--> 113 cttcccttcc tttcncncn ctttcccccg gggtttcccc cntcaaaacc cna 773
115 <210> SEQ ID NO: 4

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/780,669

DATE: 03/12/2001

TIME: 12:09:33

Input Set : A:\427c24.app.txt

Output Set: N:\CRF3\03122001\I780669.raw

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116 <211> LENGTH: 828
117 <212> TYPE: DNA
118 <213> ORGANISM: Homo sapien
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121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (1)...(828)
123 <223> OTHER INFORMATION: n = A,T,C or G
125 <400> SEQUENCE: 4
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127 aatggggcaga cacaggtgta tgccaatggt tctgaaatgg gtataatttc gtccctctcct      120
128 tcggaaacact ggcgtgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag      180
129 acgtgggtga ccatgtttgtt tgtggggtgc agagatggga ggggtggggc ccaccctgga      240
130 agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc      300
W--> 131 acaatgcatt aggcacacac acagcaagga tgacnctgta aacatagccc acgtgtcct      360
W--> 132 gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt      420
W--> 133 ctanagcggc cgccaccgcg gtgganctcc ancttttgtt cccttttagtg aggggttaatt      480
W--> 134 gcgcgcttgg cntaatcatg gtcatanctn ttctctgtgt gaaattgta tccgctcaca      540
W--> 135 attccacaca acatacganc cggaacataa aantgtaaac ctggggtgcc taatgantga      600
W--> 136 ctaactcaca ttaattgcgt tgcgtcactt gcccgctttc caatcngaa acctgtcttg      660
W--> 137 cnccttgcat tnatgaaten gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct      720
W--> 138 tccgcttctt cnetcantta nteccnenc teggtcattc cggtgcngc aaaccggttc      780
W--> 139 accnctcca aaggggttat tccggtttcc ccnaatccg gganance      828
141 <210> SEQ ID NO: 5
142 <211> LENGTH: 834
143 <212> TYPE: DNA
144 <213> ORGANISM: Homo sapien
146 <220> FEATURE:
147 <221> NAME/KEY: misc_feature
148 <222> LOCATION: (1)...(834)
149 <223> OTHER INFORMATION: n = A,T,C or G
151 <400> SEQUENCE: 5
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153 agtttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt      120
154 attttataac aatcaacacc tgtggctttt aaaatttggt ttccataaga taatttatac      180
155 tgaagttaat ctaggccatgc ttttaaaaaa tgcttttagt cactccaagc ttggcagtta      240
156 acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg      300
157 taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag      360
158 aatagaatac ctggcctctt atgcaaatat gtctagacac ttgattcac tcagccctga      420
159 cattcagttt tcaaatgagg agacaggttc tacagtatca ttttacagtt tccaacacat      480
160 tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta      540
161 tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcataata ctgggtgtgc      600
162 ttatttttaa ttagtgtcaa atggattaag tgaagacaac aatggtcccc taatgtgatt      660
W--> 163 gatattggtc atttttaacca gtttctaaat ctnaactttc aggtctttga actggaacat      720
W--> 164 tgnatnacag tgttccanag ttncaccta ctggaacatt acagtgtgct tgattcaaaa      780
W--> 165 tgttattttg ttaaaaatta aattttaacc tgggtgaaaa ataatttgaa atna      834
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 818
169 <212> TYPE: DNA
170 <213> ORGANISM: Homo sapien

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172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (1)...(818)
175 <223> OTHER INFORMATION: n = A,T,C or G
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179 aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga      120
180 tgtaaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagtgg agccaataat      180
181 gacgtgaagt ccgtggaagc ctgtggctac aaaaaatggt gagccgtaga tgccgtcgga      240
182 aatgggtgaag ggagactcga agtactctga ggccttgtag agggtaaaat agagaccag      300
183 taaaattgtga ataagcagtg cttgaattat ttggtttcgg ttgttttcta ttagactatg      360
184 gtgagctcag gtgattgata ctectgatgc gagtaatacg gatgtgttta ggagtgggac      420
185 ttctaggggga tttagcgggg tgatgcctgt tgggggccag tgccctccta gttggggggg      480
186 aggggctagg ctggagtggg aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga      540
187 ggtaataaat aggattatcc cgtatcgaag gcctttttgg acagggtggg tgtggtggcc      600
188 ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggy      660
W--> 189 ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa      720
W--> 190 gtcattanga nggctnaaaa ggcctgtgta ngggtctggy ctnggtttta cccnaccat      780
W--> 191 ggaatncncc ccccggaana ntgnatccct attcttaa      818
193 <210> SEQ ID NO: 7
194 <211> LENGTH: 817
195 <212> TYPE: DNA
196 <213> ORGANISM: Homo sapien
198 <220> FEATURE:
199 <221> NAME/KEY: misc_feature
200 <222> LOCATION: (1)...(817)
201 <223> OTHER INFORMATION: n = A,T,C or G
203 <400> SEQUENCE: 7
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205 cgggccctat ttcaagattt tttaggggaa ttaattctag gacgatgggt atgaaactgt      120
206 ggtttgctcc acagatttca gagcattgac cgtagtatac cccgggtcgt gtacgggtga      180
207 aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag      240
W--> 208 ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcgga      300
209 gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg      360
210 gaagtatgta ggaattgaag attaatccgc cgtagtcggg gttctcctag gttcaatacc      420
211 attggtggcc aattgatttg atgtaaggg gagggatcgt tgaactcgtc tgttatgtaa      480
W--> 212 aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangattatt      540
W--> 213 tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan ttngttatt      600
W--> 214 gaattntnng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg      660
W--> 215 cnttatcntn aaaggtnata accnctccta tnatccacc caatngnatt cccacnenn      720
W--> 216 acnattggat nccccanttc canaaanggc cccccccgg tgnannccnc cttttgttcc      780
W--> 217 cttnantgan ggttattenc ccttagentt atcance      817
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220 <211> LENGTH: 799
221 <212> TYPE: DNA
222 <213> ORGANISM: Homo sapien
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (1)...(799)

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RAW SEQUENCE LISTING  
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227 <223> OTHER INFORMATION: n = A,T,C or G
229 <400> SEQUENCE: 8
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231 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt      120
232 ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag      180
233 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg      240
W--> 234 tgggtggcgg angcctganc cgtctgctt tctgcccc angtgggcgg ccacccctg      300
W--> 235 acctgcctgg gtccaaacac tgagccctgc tgggcgactt caagganaac cccacangg      360
W--> 236 ggattttgct cctanantaa ggctcatctg ggctcggcc cccccacctg gttggccttg      420
W--> 237 tctttgangt gagcccatg tccatctggg ccaactgtcng gaccaccttt ngggagtgtt      480
W--> 238 ctecttacia ccacannatg cccggctcct cccggaaaacc antcccance tngaaaggat      540
W--> 239 caagnctgn atccactnnt nctanaacgg gccnccnccg cngtggaaac cnccttntgt      600
W--> 240 tcttttctnt tnagggttaa tnnccgcttg gccttncan ngctctnanc ntttccnnt      660
W--> 241 gttnaaattg ttangcncce nccnntccn cncnncnan cccgaccenn annttnnann      720
W--> 242 ncctgggggt nccnnengat tgaccenncc nccctntant tgcnttnggg nncnntgccc      780
W--> 243 ctttccctct nggganncg                                     799

245 <210> SEQ ID NO: 9
246 <211> LENGTH: 801
247 <212> TYPE: DNA
248 <213> ORGANISM: Homo sapien
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (1)...(801)
253 <223> OTHER INFORMATION: n = A,T,C or G
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258 caaggacaag gccaccaggt gcgggggccc aagcccacat gatccttact ctatgagcaa      180
W--> 259 aatccctgtg gggggcttct ccttgaagtc cgccancagg gctcagttct tggacccang      240
W--> 260 caggtcatgg ggttgtngnc caactggggg ccncaacgca aaanggcnaa gggcctcngn      300
W--> 261 caccatccc angacgcggc tacactnctg gacctccnc tccaccatt tcatgcgctg      360
W--> 262 ttentacccg cgnatntgtc ccactgttt cngtgcenac tccancttct nggacgtgcg      420
W--> 263 ctacatacgc cgggantenc nctcccgtt tgtccctatc cagtnccan caacaaattt      480
W--> 264 cncctantg caccnatccc cacttttnc agntttcnc nncngcttc cttntaaaag      540
W--> 265 ggttgancce cggaatatnc cccaaagggg gggggccngg tacccaactn cccctnata      600
W--> 266 gctgaantcc ccatnaccnn gntcnatgg anccntcent ttaannacn ttctnaactt      660
W--> 267 gggaaanance ctgcncctn cccccntaa tccnccctg cnangnnent ccccnntcc      720
W--> 268 nccnntng gcntntnann cnaaaaaggc cnnnancaa tctcctnncn cctcanttgc      780
W--> 269 ccancctcg aaatcgccn c                                     801

271 <210> SEQ ID NO: 10
272 <211> LENGTH: 789
273 <212> TYPE: DNA
274 <213> ORGANISM: Homo sapien
276 <220> FEATURE:
277 <221> NAME/KEY: misc_feature
278 <222> LOCATION: (1)...(789)
279 <223> OTHER INFORMATION: n = A,T,C or G
281 <400> SEQUENCE: 10
W--> 282 cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgctgttccc      60

```

FYI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/780,669DATE: 03/12/2001  
TIME: 12:09:34Input Set : A:\427c24.app.txt  
Output Set: N:\CRF3\03122001\I780669.raw

L:31 M:270 C: Current Application Number differs, Wrong Format  
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/780,669

DATE: 03/12/2001

TIME: 12:09:34

Input Set : A:\427c24.app.txt

Output Set: N:\CRF3\03122001\I780669.raw

L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

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